PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification Preliminary Ex	on of Transmittal of International kamination Report (Form PCT/IPEA/416)		
1415	Y signal filing date (dm/m/	onth/vear)	Priority date (day/month/year)		
International application No.	International filing date (day/month/year) Priority date (day/month/year)				
PCT/US03/32427	14 October 2003 (14.10.2003)		16 October 2002 (16.10.2002)		
International Patent Classification (IPC)	or national classification and IPC		ļ		
IPC(7): C04B 35/10 and US C1.: 501/87	7,96.1,96.4,99,103,104,127,133				
Applicant					
VESUVIUS CRUCIBLE COMPANY					
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. 					
2. This REPORT consists of	a total of sheets, meradin	6 and 00 . 01 and			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of	a total of sheets.				
3. This report contains indic	cations relating to the following	g items:			
I Basis of the re	I Basis of the report				
II Priority					
III Non-establishn	III Non-establishment of report with regard to novelty, inventive step and industrial applicability				
IV Lack of unity					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
·	VI Certain documents cited				
VII Certain defects in the international application					
VIII Certain observations on the international application					
Date of submission of the demand	Da	ate of completion	n of this report		
11 May 2004 (11.05.2004)		14 February 2005 (14.02.2005)			
Name and mailing address of the IPEA/US		Authorized officer			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	P	Paul Marcantoni Wmf WdW			
l = 0 P== 1/50	N .	1			
P.O. Box 1430 Alexandria, Virginia 22313-1450 Telephone No. 571-272-13/73 Facsimile No. (703) 305-3230			1-2/2-1303		
Form PCT/IPEA/409 (cover sheet)(July	(1998)				





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US03/32427

I.	Basis	s of the report	••		
1.	With	regard to the elements of the international application:*	İ		
	\boxtimes	the international application as originally filed.			
	岗	the description:	İ		
		pages 1-15 as originally filed			
		pages NONE , filed with the demand pages NONE , filed with the letter of	ĺ		
	K-7		l		
	\boxtimes	the claims:	1		
		pages 16-19, as originally filed pages NONE, as amended (together with any statement) under Article 19			
		pages NONE , filed with the letter of	1		
	\boxtimes	the drawings:	ļ		
		pages 1, as originally filed			
		pages NONE , filed with the demand pages NONE , filed with the letter of	١		
			l		
		the sequence listing part of the description:	1		
ĺ		pages NONE , as originally filed pages NONE , filed with the demand .			
		THE THE WITH THE TELL OF THE T	ļ		
2	. Wit	the language of the elements marked above were available or rumished to his Authority in the	ļ		
	lang	n regard to the language, an inc elements marked ed, unless otherwise indicated under this item. uage in which the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:	İ		
	Ine	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).			
	닏	the language of publication of the international application (under Rule 48.3(b)).			
	\vdash	the language of the translation furnished for the purposes of international preliminary examination (under Rules	İ		
	Ш	55.2 and/or 55.3)	١		
2	Wit	harvered to any prolocitide and/or amino acid sequence disclosed in the international application, the	l		
٦	inte	rnational preliminary examination was carried out on the basis of the sequence listing:	1		
ŀ		contained in the international application in printed form.			
		filed together with the international application in computer readable form.	1		
l		furnished subsequently to this Authority in written form.	١		
		furnished subsequently to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the	ļ		
	-	international application as filed has been furnished.	l		
		The statement that the information recorded in computer readable form is identical to the written sequence listing	g		
		has been furnished.	1		
4	ı. 🗀	The amendments have resulted in the cancellation of:			
		the description, pages NONE	ļ		
		the claims, Nos. NONE			
		the drawings, sheets/fig NONE	į		
ا !	5.	This senest has been established as if (some of) the amendments had not been made, since they have been considered to go			
		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	n		
	beyond the disclosure as fined, as finited to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). this report as "originally filed" and are not annexed to the referred to under item 1 and annexed to this report.				
this report as "originally filed" and the not dimested to this report of the referred to under item 1 and annexed to this report. ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					
1	•		_		

Form PCT/IPEA/409 (Box I) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/32427

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
1. The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:				
	the entire international application,			
	claims Nos			
becau	ise:			
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify):			
\boxtimes	the description, claims or drawings (indicate particular elements below) or said claims Nos. 6-14 are so unclear that no meaningful opinion could be formed (specify):			
Claim	s 6-14 are improper multiple dependent claims and thus could not be examined.			
	·			
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.			
	no international search report has been established for said claims Nos			
2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:				
	the written form has not been furnished or does not comply with the standard.			
	the computer readable form has not been furnished or does not comply with the standard.			

Form PCT/IPEA/409 (Box III) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/32427

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims	NONE	YES	
, ,	Claims	1-5, 15-17		
	Claima	NONE	YES	
Inventive Step (IS)		NONE 1-5, 15-17		
Industrial Applicability (IA)		1-5 and 15-17		
	Claims	NONE	NO	
Article 33(3) over Lunrsen et al. (US Facilit Number Luhrsen et al. teach a composition for noza and a resinous bonding agent such as novalak or rescuent and a rescuent and a re	in PCT Artice composition	ol.3, lines 51-61) thus anticipating the	licability because the subject	
			•	